

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	590	436/55.ccls.	USPAT	OR	ON	2008/12/04 10:20
L2	107	436/55.ccls.	US-PGPUB	OR	ON	2008/12/04 10:20
L3	7	436/55.ccls. and etching	US-PGPUB	OR	ON	2008/12/04 10:20
L4	0	1 and etching	US-PGPUB	OR	ON	2008/12/04 10:20
L5	560	438/5,8-10.ccls. and (etching) same control\$4	US-PGPUB; USPAT	OR	ON	2008/12/04 10:23
L6	28	438/5,8-10.ccls. and (etching) same control\$4 same (gap or aperture)	US-PGPUB; USPAT	OR	ON	2008/12/04 10:24
L7	5	438/5,8-10.ccls. and (etching) same control\$4 and tunnel\$4 near3 current	US-PGPUB; USPAT	OR	ON	2008/12/04 10:24
S1	5	("20040229386" "7030452" "5071832" "5219826" "5407868").pn.	US-PGPUB; USPAT	OR	ON	2008/12/01 17:39
S2	13	("20020015963"   "20030079999"   "20040023253"   "20040067646"   "20040104129"   "20040169243"   "4338157"   "6326215"   "6506296"   "6655010"   "6699667"   "6737286"   "6773926").PN. OR ("7030452").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/01 17:40
S3	3891	422/50,68,1,82,01.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/01 18:00
S4	1761	438/48,49.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/01 18:01
S5	1719	436/43,149.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/01 18:01
S6	2737	257/1,9,25,30,104,106,321.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/01 18:01
S7	834	204/192.3,192.13.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/01 18:02
S8	37	(S1 S2 S3 S4 S5 S6 S7) and (tunnel\$4 near6 current) with gap	US-PGPUB; USPAT	OR	ON	2008/12/01 18:04
S9	4	S8 and membrane	US-PGPUB; USPAT	OR	ON	2008/12/01 18:04

S10	395	(e\$1beam or electron near6 beam) with raster\$6 same (electrode or electric\$3 near4 contact\$2)	US- PGPUB; USPAT	OR	ON	2008/12/01 18:12
S11	395	(e\$1beam or electron near6 beam) with raster\$6 same (electrode or electric\$3 near4 contact\$2 or nano \$1electrode or nano\$electrode)	US- PGPUB; USPAT	OR	ON	2008/12/01 18:12
S12	12	S11 and tunnel\$4 near6 current	US- PGPUB; USPAT	OR	ON	2008/12/01 18:12
S13	9	S11 and tunnel\$4 near6 current same gap	US- PGPUB; USPAT	OR	ON	2008/12/01 18:12
S14	1100	tunnel\$4 near6 current same gap	US- PGPUB; USPAT	OR	ON	2008/12/01 18:14
S15	96	(S1 S2 S3 S4 S5 S6 S7) and S14	US- PGPUB; USPAT	OR	ON	2008/12/01 18:15
S16	2126	438/10,48,49.ccls.	US- PGPUB; USPAT	OR	ON	2008/12/01 18:18
S17	96	(S1 S2 S3 S15 S5 S6 S7) and S14	US- PGPUB; USPAT	OR	ON	2008/12/01 18:18
S18	766	(S1 S2 S3 S15 S5 S6 S7) and tunnel\$6 near6 current	US- PGPUB; USPAT	OR	ON	2008/12/01 18:18
S19	62	Golovchenko.in.	US- PGPUB; USPAT	OR	ON	2008/12/01 18:19
S20	9	Golovchenko.in. and tunnel\$6 near6 current	US- PGPUB; USPAT	OR	ON	2008/12/01 18:19
S21	9	Golovchenko.in. and tunnel\$6 near6 current and gap	US- PGPUB; USPAT	OR	ON	2008/12/01 18:20
S22	5	Golovchenko.in. and tunnel\$6 near6 current same gap	US- PGPUB; USPAT	OR	ON	2008/12/01 18:20
S23	34	("20020039737"   "20020081744"   "20020119455"   "4874499"   "5221447"   "5356776"   "5376878"   "5612179"   "5795782"   "5833826"   "6015714"   "6054035"   "6156502"   "6190865"   "6203993"   "6214545"   "6221603"   "6238866"   "6355420"   "6362002"   "6403311"   "6528258"). PN. OR ("6627067").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2008/12/01 18:21
S24	0	"7030452".pn. and (membrane)	US- PGPUB; USPAT; USOCR	OR	OFF	2008/12/01 18:22

S25	0	"7030452".pn. and porous	US- PGPUB; USPAT; USOCR	OR	OFF	2008/12/01 18:22
S26	1	"20040229386".pn. and (conduct\$4 near4 feature)	US- PGPUB; USPAT	OR	ON	2008/12/02 10:34
S27	928	4318/10.ccls. or 204/192.32.ccls.	US- PGPUB; USPAT	OR	ON	2008/12/02 10:37
S28	194	(gap) with (control\$4 or extent or maintain\$4) same (tunnel\$4 near5 current)	US- PGPUB; USPAT	OR	ON	2008/12/02 10:41
S29	50	S28 and ("438" or "204" or "436" or "422" or "257").clas.	US- PGPUB; USPAT	OR	ON	2008/12/02 10:42
S30	1	"20040229386".pn. and insulat\$4 with membrane	US- PGPUB; USPAT	OR	ON	2008/12/02 10:48
S31	1	"20040229386".pn. and aperture	US- PGPUB; USPAT	OR	ON	2008/12/02 10:57
S32	1	"20040229386".pn. and aperture near6 align\$4 near6 gap	US- PGPUB; USPAT	OR	ON	2008/12/02 10:57
S33	1	"6464842".pn.	US- PGPUB; USPAT	OR	ON	2008/12/02 11:01
S34	1	"20040229386".pn. and membrane	US- PGPUB; USPAT	OR	ON	2008/12/02 11:14
S35	1	"20040229386".pn. and membrane	US- PGPUB; USPAT	OR	ON	2008/12/02 11:58
S36	194	(gap) with (control\$4 or extent or maintain\$4) same (tunnel\$4 near5 current)	US- PGPUB; USPAT	OR	ON	2008/12/02 15:31
S37	50	S36 and ("438" or "204" or "436" or "422" or "257").clas.	US- PGPUB; USPAT	OR	ON	2008/12/02 15:31
S38	35	("20020039737"   "20020081744"   "20020119455"   "4874499"   "5221447"   "5356776"   "5376878"   "5612179"   "5795782"   "5833826"   "6015714"   "6054035"   "6156502"   "6190865"   "6203993"   "6214545"   "6221603"   "6238866"   "6355420"   "6362002"   "6403311"   "6528258"). PN. OR ("6627067").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 15:31
S39	59471	gap with (electrode or nano\$electrode \$1 or nano\$1electrod\$2)	US- PGPUB; USPAT	OR	ON	2008/12/02 15:32

S40	1181	S39 and tunnel\$5 near6 (current or charge)	US-PGPUB; USPAT	OR	ON	2008/12/02 15:36
S41	280	gap with (electrode or nano\$electrode \$1 or nano\$1electrod\$2) same tunnel \$5 near6 (current or charge)	US-PGPUB; USPAT	OR	ON	2008/12/02 15:36
S42	167	gap with (electrode or nano\$electrode \$1 or nano\$1electrod\$2) same tunnel \$5 near6 (current or charge)	USPAT	OR	ON	2008/12/02 15:36
S43	1	"20040229386".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 16:40
S44	3258	(ion near4 beam) near4 (sculpt\$4 or expos\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 16:58
S45	5	(ion near4 beam) near4 (sculpt\$4 or expos\$4) same gap with (control\$4 or extent\$4 or dimension\$4 or featur\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 16:58
S46	181	(ion near4 beam) near4 (sculpt\$4 or expos\$4) and gap with (control\$4 or extent\$4 or dimension\$4 or featur\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 17:00
S47	99	(ion near4 beam) near4 (sculpt\$4 or expos\$4) and gap with (control\$4 or extent\$4 or dimension\$4 or featur\$3) and ("438" or "204" or "205" or "257" or "215" or "422" or "436")	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 17:01
S48	2198	(ion near4 beam or electron near4 beam) near4 (sculpt\$4 or expos\$4 or etch\$4) and (gap or aperture) with (control\$4 or extent\$4 or dimension\$4 or diameter or depth) and ("438" or "204" or "205" or "257" or "215" or "422" or "436")	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 17:14
S49	1445	(ion near4 beam or electron near4 beam) near4 (sculpt\$4 or expos\$4 or etch\$4) and (gap or aperture) with (extent\$4 or dimension\$4 or diameter or depth) and ("438" or "204" or "205" or "257" or "215" or "422" or "436")	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 17:15
S50	1437	(ion near4 beam or electron near4 beam) near4 (sculpt\$4 or expos\$4 or etch\$4) and (gap or aperture) with (extent\$4 or dimension\$4 or diameter or depth) and ("438" or "204" or "205" or "257" or "215" or "422" or "436")	US-PGPUB; USPAT	OR	ON	2008/12/02 17:15
S51	1295	(ion near4 beam or electron near4 beam) near4 (sculpt\$4 or expos\$4 or etch\$4) and (gap or aperture) with (extent\$4 or dimension\$4 or diameter or depth) and ("438" or "204" or "205" or "257" or "215")	US-PGPUB; USPAT	OR	ON	2008/12/02 17:15

S52	69	(ion near4 beam or electron near4 beam) near4 (sculpt\$4 or expos\$4 or etch\$4) same (gap or aperture) with (extent\$4 or dimension\$4 or diameter or depth) and ("438" or "204" or "205" or "257" or "215"). clas.	US- PGPUB; USPAT	OR	ON	2008/12/02 17:17
S53	7	S52 and (tunneling near5 (current or charge) or electron\$3 near3 tunneling)	US- PGPUB; USPAT	OR	ON	2008/12/02 17:22
S54	1	"6627067".pn. and (tunnel\$4 near6 current)	US- PGPUB; USPAT	OR	ON	2008/12/03 09:38
S55	1	"6627067".pn. and (elect\$5 near5 tunnel\$4 or tunnel\$4 near5 current)	US- PGPUB; USPAT	OR	ON	2008/12/03 12:01
S56	1	"6627067".pn. and electrode	US- PGPUB; USPAT	OR	ON	2008/12/03 12:02
S57	1	"6627067".pn. and (gap or aperture) with extent	US- PGPUB; USPAT	OR	ON	2008/12/03 12:05
S58	1	("20040229386").pn. and aperture	US- PGPUB; USPAT	OR	ON	2008/12/03 13:01
S59	1768	438/48,49.ccls.	US- PGPUB; USPAT	OR	ON	2008/12/03 15:44
S60	1722	436/43,149.ccls.	US- PGPUB; USPAT	OR	ON	2008/12/03 15:44
S61	2737	257/1,9,25,30,104,106,321.ccls.	US- PGPUB; USPAT	OR	ON	2008/12/03 15:44
S62	834	204/192.3,192.13.ccls.	US- PGPUB; USPAT	OR	ON	2008/12/03 15:44
S63	7038	(S59 S60 S61 S62)	US- PGPUB; USPAT	OR	ON	2008/12/03 15:44
S64	114	S63 and (gap) with (aperture or trench or cavity or trough)	US- PGPUB; USPAT	OR	ON	2008/12/03 15:45
S65	11	S63 and (gap) with (aperture or trench or cavity or trough) with (electrode or electric\$4 near3 (contact or feature))	US- PGPUB; USPAT	OR	ON	2008/12/03 15:47
S66	2	("7030452" "6464842").pn.	US- PGPUB; USPAT	OR	ON	2008/12/03 16:04

S67	13	("20020015963"   "20030079999"   "20040023253"   "20040067646"   "20040104129"   "20040169243"   "4338157"   "6326215"   "6506296"   "6655010"   "6699667"   "6737286"   "6773926").PN. OR ("7030452").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/03 16:04
S68	29	("4455192"   "4728591"   "4855197"   "5244527"   "5319197"   "5420067"   "5486264"   "5556462"   "5753014"   "5780852"   "5789024"   "5798042"   "5851842"   "5868947"   "5876880"   "5893974"   "5962081").PN. OR ("6464842").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/03 16:05
S69	42	S67 S68	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/03 16:05
S70	0	"7030452".pn. and (trench or aperture or cavity)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:20
S71	1	"7030452".pn. and (trench or aperture or cavity or slit or opening)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:20
S72	0	"5420067".pn. and electrode	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:26
S73	29	S69 and (electrode or electric\$4 near3 (contact or feature))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:26
S74	0	"5420067".pn. and (tunnel\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:31
S75	15	S69 and tunnel\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:31
S76	14	S73 and S75	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:31
S77	3	("7258838" "5838005" "3771058").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:40
S78	0	"5838005".pn. and electrode	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:45

S79	1	"5838005".pn. and electron\$4 near5 tunnel\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:45
S80	0	"5838005".pn. and tunnel\$4 near4 current	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/03 16:45
S81	39	("0587568"   "3723690"   "3974357"   "3988563"   "4045311"   "4069121"   "4278871"   "4393292"   "4866237"   "4992639"   "5281788"   "5294790"   "5317141"   "5322985"   "5581083"). PN. OR ("5838005").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/03 16:45
S82	62	438/10.ccls.	US-PGPUB	OR	ON	2008/12/03 16:59
S83	174	204/192.32,192.3,192.13.ccls.	US-PGPUB	OR	ON	2008/12/03 16:59
S84	381	257/414.ccls.	US-PGPUB	OR	ON	2008/12/03 17:00
S85	1481	438/5,8-10.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/03 17:02
S86	11	438/5,8-10.ccls. and tunnel\$5 near3 current	US-PGPUB; USPAT	OR	ON	2008/12/03 17:03
S87	335	438/5,8-10.ccls. and (gap or aperture)	US-PGPUB; USPAT	OR	ON	2008/12/03 17:03
S88	2	438/5,8-10.ccls. and (gap) with (aperture or trench or cavity or trough) with (electrode or electric\$4 near3 (contact or feature))	US-PGPUB; USPAT	OR	ON	2008/12/03 17:04
S89	62	golovchenko.in.	US-PGPUB; USPAT	OR	ON	2008/12/03 17:08
S90	1295	438/10.ccls. or 204/192.32.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/03 17:20
S91	0	"4155779".pn. and (electrode)	US-PGPUB; USPAT	OR	ON	2008/12/03 17:23
S92	0	"4155779".pn. and (electric\$4 near3 (contact or feature or conduct\$4))	US-PGPUB; USPAT	OR	ON	2008/12/03 17:24
S93	654	438/5,8-10.ccls. and etching with (ion near3 beam or plasma or chemical or ion)	US-PGPUB; USPAT	OR	ON	2008/12/03 17:37
S94	162	S93 and (gap or aperture)	US-PGPUB; USPAT	OR	ON	2008/12/03 17:37

S95	2	S93 and (gap or aperture) and (tunnel\$4 near3 current)	US-PGPUB; USPAT	OR	ON	2008/12/03 17:38
S96	333	S93 and (gap or aperture or trench or cavity or trough or slit)	US-PGPUB; USPAT	OR	ON	2008/12/03 17:43
S97	5	S96 and (tunnel\$4 near3 current)	US-PGPUB; USPAT	OR	ON	2008/12/03 17:44

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